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Document version

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1.0	August 4, 2020	Initial version



1 INTRODUCTION

BISS-CA is a conditional access system based on open cryptographic standards. It uses a combination of symmetric and asymmetric ciphers to protect the transmitted content and entitle or revoke in real-time any receiver in an interoperable manner.

Eurovision Services (ES) will use the new BISS-CA standard in high-profile transmissions.

This document explains the requisites to upgrade the Ateme DR5000 decoder to be compatible with the new BISS-CA standard. This process requires the download of new firmware and must be performed by an engineer with direct access to the units.

2 REQUIREMENTS FOR BISS-CA COMPATIBILITY

To receive BISS-CA encrypted

- Firmware version 2.4.7.1 or more recent
- BISS-CA license: for units sold by Eurovision Services, after registration on www.eurovision.net, BISS-CA license and support is offered for a fee.

3 FIRMWARE UPGRADE

Please follow the instructions as described in the Application Note document, which can be downloaded from the following page:

https://www.eurovision.net/insights/technical/biss-ca-migration-files-download

4 DECODER REGISTRATION ON Eurovision.net

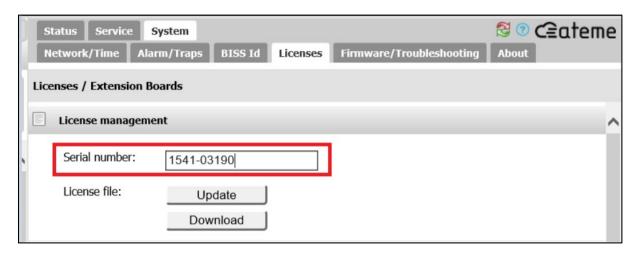
After firmware upgrade, decoders must be registered on the ES web site (https://www.eurovision.net/biss-ca-migration) to be authorized to receive BISS-CA encrypted transmissions.

During the registration process, three screenshots are requested:

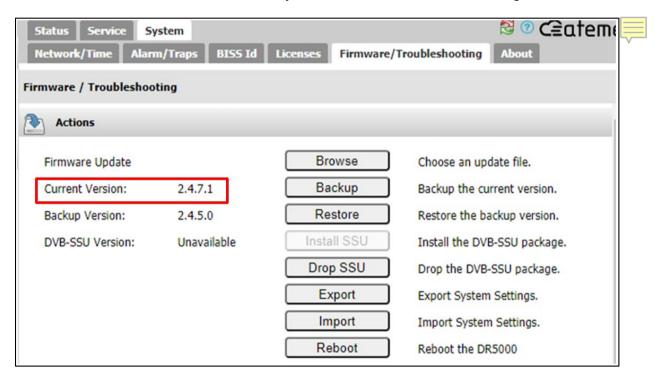
• Serial Number: found under System > Licenses > License management as shown in



the following screenshot

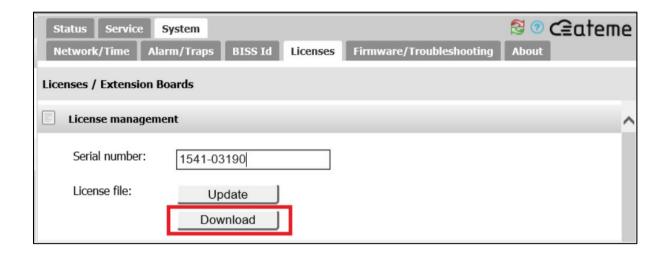


• Firmware version: found under System > Firmware / Troubleshooting



• License file: which can be downloaded from section *System > Licenses*, as shown in the following picture.

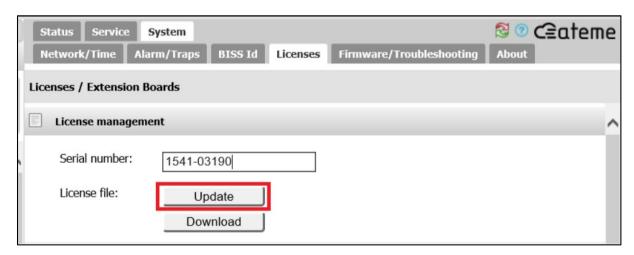




5 INSTALLATION OF BISS-CA LICENSE

For units sold by ES, a BISS-CA license will be provided after registration of the decoder in www.eurovision.net

 The license will be sent by e-mail to the contact defined by the broadcaster during the registration. It consists of a license file that must be uploaded to the decoder in section System > Licenses, as shown in the following picture.

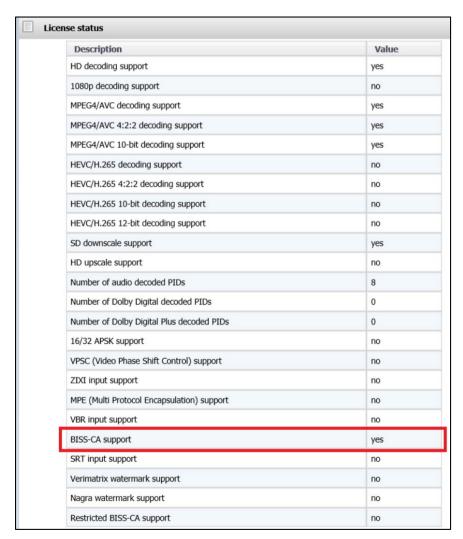


Click on "proceed to update" to start the update license process.



License Update				
This process will allow to update the current firmware in two steps:				
1. Upload the update file to the device				
2. Apply the update and Reboot the device				
Note: The upload could take several minutes depending on file size				
and the speed of the connection.				
Proceed to update Cancel				

After the license has been successfully installed and the decoder has rebooted, a new license "BISS-CA support" will appear under *System > Licenses*, as shown in the following picture.

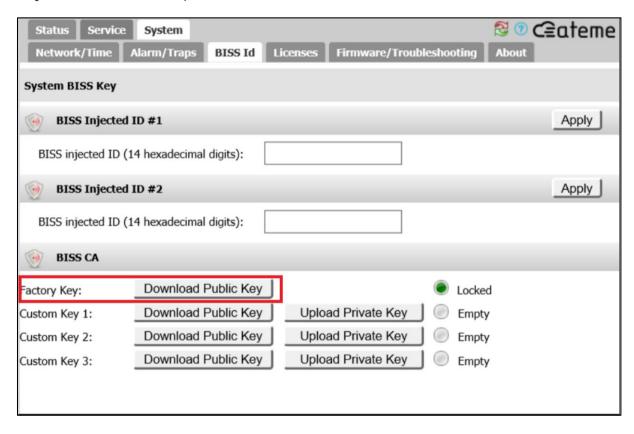


Notice that the licenses displayed in this screenshot are just an example. Licenses in your own decoders may be different.



6 EXTRACTION OF PUBLIC KEY

Once the BISS-CA license has been applied to the DR5000 decoder, the device BISS-CA public key file can be downloaded from section **System > BISS Id > BISS CA > Factory Key**. This is shown in the picture below.



This file **must be uploaded to the ES registration portal**, as explained in the "Technical Guidelines for BISS-CA access" document.

7 CONTACTS

Please report any technical issues with the upgrade to the BISS-CA upgrade team BISS-CA@eurovision.net